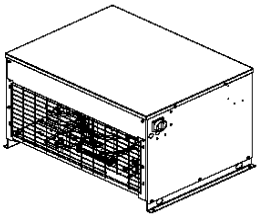
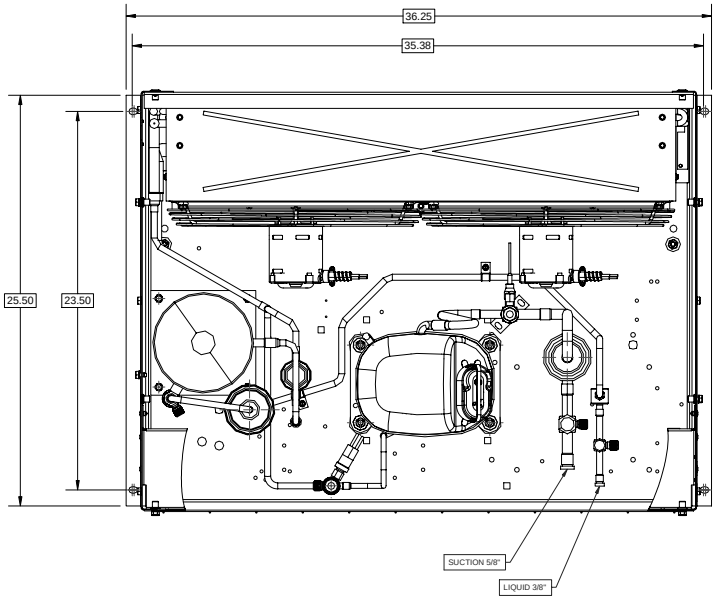
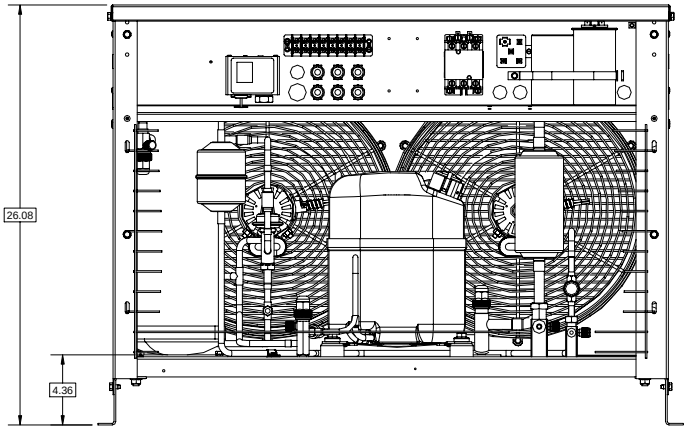
TECUMSEH HERMETIC CONDENSING UNIT

Model	**AJA7490ZXDHN**
BOM	**32L1801-2E**
Air Cooled	**1 HP**
Application	**Medium Temp**
Refrigerant	**R404A**







Model	Dim. Enclosure(inch)*			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90% @ 90°F	SCFM	Oz.	Lbs.
AJA7490ZXDHN	31.50	40.50	26.75	5/8	3/8	20.16	1800	22	300

*) Enclosure Mounting Holes, 38.5 x 25.5

Factory charge 20 psig dry air, **MUST BE EVACUATED**

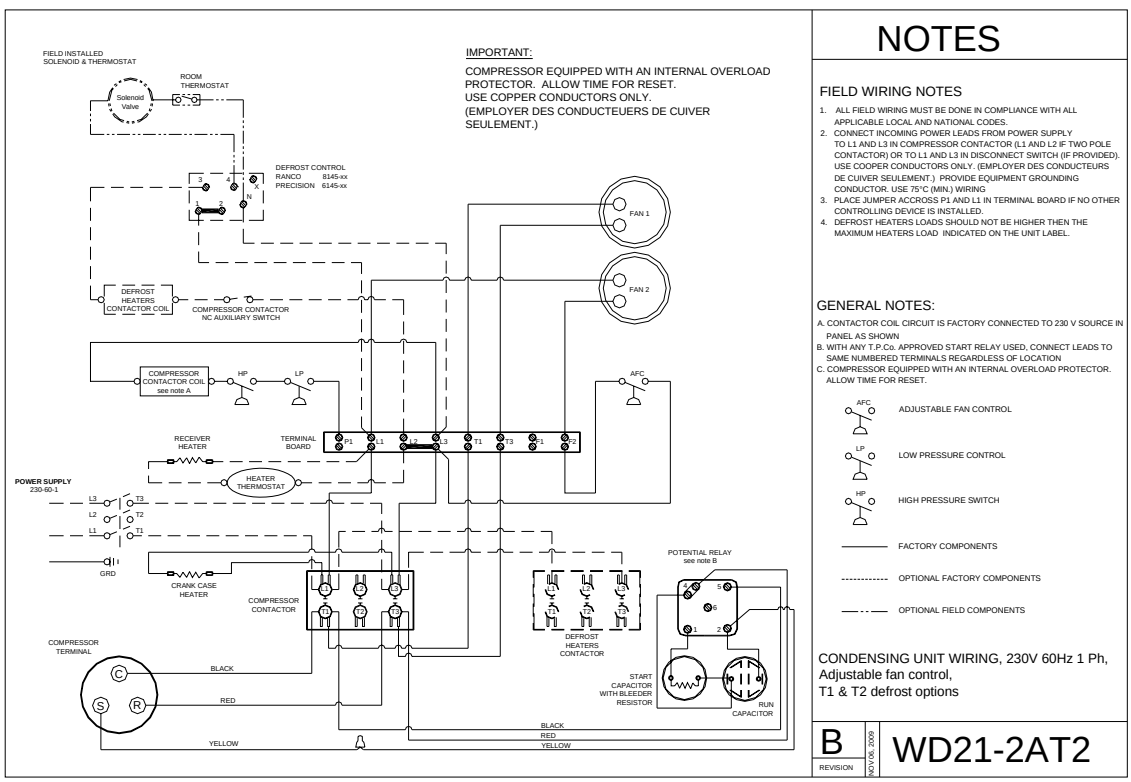
Evaporator		Ambient Temeratures															
		80°F				95°F				100°F				110°F			
°F	Psig	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T	BTUH	Watts	Head	Cond T
-10	23.2	4900	1290	203	89	3800	1250	251	104	3400	1250	269	109	2500	1160	308	119
-5	27.5	5800	1360	205	90	4600	1340	253	105	4200	1330	271	110	3200	1230	309	119
0	32.1	6800	1430	208	91	5600	1430	256	106	5100	1420	274	110	4100	1300	312	120
5	37.0	7800	1490	212	92	6500	1510	260	107	6000	1510	278	111	5000	1490	315	121
10	42.4	8900	1550	215	94	7500	1590	264	108	7000	1590	282	113	6000	1590	319	122
15	48.2	10000	1610	220	95	8600	1660	269	109	8100	1670	287	114	7000	1690	323	123
20	54.5	11100	1670	224	97	9700	1740	274	111	9100	1750	292	115	8100	1780	328	124
25	61.2	12200	1740	229	98	10800	1810	280	112	10200	1840	298	117	9200	1870	334	126
30	68.4	13300	1810	235	100	11900	1890	286	114	11400	1920	304	119	10300	1970	341	127
35	76.1	14400	1890	241	102	13000	1980	293	116	12500	2010	311	120	11400	2070	348	129

Performance @ 60 Hz ; Return Gas Temperature 20°F max superheat above 20°F evap, 40°F max below 20°F evap ; --- SubCooling 5°F

PRELIMINARY PERFORMANCE DATA

Parts/Specifications

STANDARD				OPTIONAL	
Unit BOM	**32L1801-2E**	Fan Motor	810F050C20	Fix.Fan Switch #1 (F opt.)	84132-01
Unit MODEL	**AJA7490ZXDHN**	Fan Motor Qty	2	Fix.Fan Switch #2 (F opt.)	
		Fan Motor RLA	0.7	Adjus. Fan Ctrl. (A opt.)	
Refrigeration RANGE	-10°F to 35°F	Fan Blade	51568-1		
Design Pressure Low	181	Fan Guard	70831	Defrost Clock (Tn option)	
Design Pressure High	450	Shroud	70648-2	Defrost Heaters Contactor	
Volts - HZ - Ph	208-230V ~ 60HZ				
Voltage Range	187 - 254	High Pressure switch	84095-2L	Rec. Heater (R option)	
Min. Circuit Ampacity	10.70	Low Pressure Control	84026-2	Solenoid Valve (loose)	
Max. Fuse Size	15	Dual Pressure Conrol		Disconnect (D option)	
Compressor MODEL	AJA7490ZXD	Condenser	50855-1	Wiring with F option	WD21-2AT2
Compressor BOM	AJ779ET-361-A4	Head Master Valve	70083-1	Wiring with A option	
Compressor LRA	40.6	Check Valve	56626	**BOM INDEX DESCRIPTION**	
Compressor RLA	6.90	Process Valve			
		Liquid Valve	56500-K06		
OverLoad	8300MRAC37	Suction Valve	56500-K10	**32xYYYY- 2ERA(F)TnDS**	
Relay	14948497			E Enclosure	
Run Capacitor	85PR370F21	Receiver	51099-2L	R Receiver Heater	
Run Capacitor Rating	45 MFD, 370 V	Receiver Qty	1	A Adjustable fan control	
Start Capacitor	85PS330C24	Accumulator		F Fixed fan Control	
Start Capacitor Rating	88-108 MFD, 330 V	Liquid Filter	70081-3	T1 Defrost timer option	
Contactor	91014B	Sight Glass	70084	T2 Defrost timer & Defrost Heaters Contactor	
		Suction Filter	70822-6S	D Disconnect	
Unit Drawing	DGU1758-L101			S Solenoid liquid Valve (supplied loose)	
Wiring Diagram	WD21-2XT2	CrankCase Heater	92123-1		



NOTES

FIELD WIRING NOTES

1. ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
2. CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1 AND L3 IN COMPRESSOR CONTACTOR (L1 AND L2 IF TWO POLE CONTACTOR) OR TO L1 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COOPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING
3. PLACE JUMPER ACCROSS P1 AND L1 IN TERMINAL BOARD IF NO OTHER CONTROLLING DEVICE IS INSTALLED.
4. DEFROST HEATERS LOADS SHOULD NOT BE HIGHER THEN THE MAXIMUM HEATERS LOAD INDICATED ON THE UNIT LABEL.

GENERAL NOTES:

A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
B. WITH ANY T.P.Co. APPROVED START RELAY USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION
C. COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.

AFC — ADJUSTABLE FAN CONTROL
LP — LOW PRESSURE CONTROL
HP — HIGH PRESSURE SWITCH
——— FACTORY COMPONENTS
- - - - - OPTIONAL FACTORY COMPONENTS
——·—— OPTIONAL FIELD COMPONENTS

CONDENSING UNIT WIRING, 230V 60Hz 1 Ph,
Adjustable fan control,
T1 & T2 defrost options

B REVISION — NOV 06, 2009 — WD21-2AT2